

Notice of Allowability

Application No.

09/995,144

Examiner

Blanche Wong

Applicant(s)

DICK, STEPHEN G.

Art Unit

2667

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to January 6, 2006.
2. ☒ The allowed claim(s) is/are 1-20.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date Mar'06.
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____.

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given by Mr. Frederick Koenig III, in phone conversations on March 17 and March 20, 2006, and an email exchange with MSWord attachment on March 20, 2006.

The following claims are replaced by:

1. (Currently Amended) In a telecommunications system in which a plurality of User Equipments (UEs) communicate with a common station via communication signals having a system frame format with at least one commonly used time slot (CUTS) per frame which is available for common use by the UEs for transmitting code identified signals for a specific uplink channel, where the UEs select a code identifier from a plurality of identifiers and where a UE transmission with a selected code identifier in a selected CUTS will fail if another UE transmits with the same code identifier in the same CUTS or if the UE transmission lacks sufficient power, a communication method comprising:

determining the number of successful and failed UE transmissions in CUTSs per frame that are received by the common station from the plurality of UEs;

Art Unit: 2667

adjusting one or more communication parameters, including a dynamic persistence parameter (DP) or a power control parameter (R), in response to said determination; and

broadcasting by the common station the adjusted one or more communication parameters.

2. (Currently Amended) The method of claim 1 wherein the number of successful and failed UE transmissions in CUTSs is determined for individual system frames further comprising:

adjusting DP in response to the individual system frame determinations; and

broadcasting DP upon which the UEs determine an access rate for transmitting in CUTSs.

5. (Currently Amended) The method claim of 4 comprising:

adjusting R in response to said determination over the selected time interval whereby the UEs adjust their transmission power after receiving an adjusted value for R in accordance with that adjusted value; and

broadcasting R to the UEs.

9. (Currently Amended) The method of claim 5 wherein the number of successful and failed UE transmissions in CUTSs is also determined for individual system frames, further comprising:

Art Unit: 2667

adjusting DP in response to the individual system frame determinations;
and

broadcasting DP upon which the UEs determine an access rate for transmitting in CUTSs.

13. (Currently Amended) The method of claim 4 wherein the specific channel is a Random Access Channel (RACH), further comprising:

adjusting DP in response to said determination over the selected time interval whereby the UEs adjust their access rate to CUTS after receiving an adjusted value for DP in accordance with that adjusted value; and

broadcasting DP upon which the UEs determine an access rate for transmitting in CUTSs.

15. (Currently Amended) The method of claim 4 wherein the system frame is 10 microseconds, the selected time interval is 1 second, the common station comprises a radio network controller (RNC), eight code identifiers are provided as midambles for UE transmissions and the specific uplink channel is a Random Access Channel (RACH).

16. (Currently Amended) The method claim of 15 further comprising:

adjusting a RACH parameter in response to said determination over the selected time interval whereby the UEs adjust their transmission power after receiving an adjusted value for said RACH parameter in accordance with that adjusted value;

Art Unit: 2667

broadcasting said RACH power control parameter to the UEs;

adjusting DP in response to said determination over the selected time interval whereby the UEs adjust their access rate to CUTS after receiving an adjusted value for DP in accordance with that adjusted value; and

broadcasting DP upon which the UEs determine an access rate for transmitting in CUTSs.

17. (Currently Amended) A common station configured for use in a telecommunications system in which a plurality of User Equipments (UEs) communicate with the common station via communication signals having a system frame format with at least one commonly used time slot (CUTS) per frame which is available for common use by the UEs for transmitting code identified signals for a specific uplink channel, where the UEs select a code identifier from a plurality of identifiers and where a UE transmission with a selected code identifier in a selected CUTS will fail if another UE transmits with the same code identifier in the same CUTS or if the UE transmission lacks sufficient power, the common station comprising:

a memory configured to store the number of successful and failed UE transmission in CUTSs per frame;

processing circuitry configured to determine whether UE transmission in CUTSs succeed or fail and storing determination results as data in the memory;

said processing circuitry further configured to adjust one or more communication parameters, including a dynamic persistence parameter (DP) or a power control parameter (R), based on the data stored in said memory; and

means for broadcasting said adjusted communication parameters.

18. (Currently Amended) The common station of claim 17 wherein the common station processing circuitry is configured to determine and store the number of successful and failed UE transmissions in CUTSs for individual system frames and to adjust DP, upon which the UEs determine an access rate for transmitting in CUTSs, based on stored data reflecting the individual system frame determinations.

19. (Currently Amended) A telecommunications system comprising:
a plurality of User Equipments (UEs);

a common station configured to communicate with said UEs via communication signals having a system frame format with at least one commonly used time slot (CUTS) per frame which is available for common use by the UEs for transmitting code identified signals for a specific uplink channel, where the UEs select a code identifier from a plurality of identifiers and where a UE transmission with a selected code identifier in a selected CUTS will fail if another UE transmits with the same code identifier in the same CUTS or if the UE transmission lacks sufficient power;

said common station including:

a memory configured to store the number of successful and failed UE transmission in CUTSs per frame; and

processing circuitry configured to determine whether UE transmission in CUTSs succeed or fail, to store the determination results

Art Unit: 2667

as data in the memory and to adjust one or more communication parameters, including a dynamic persistence parameter (DP) or a power control parameter (R), based on the data stored in said memory; and said common station processing circuitry further configured to determine and store the number of successful and failed UE transmissions in CUTSs for multiple system frames spanning a selected time interval and to adjust R, upon which the UEs determine a power level for transmitting in CUTSs, based on stored data reflecting the determinations over the selected time interval.

Conclusion

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Blanche Wong whose telephone number is 571-272-3177. The examiner can normally be reached on Monday through Friday, 830am to 530pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on 571-272-3155. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bw

BW
March 20, 2006



HUY D. VU
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600